

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2003/002747

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7 F16K 37/00**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 F16K 37/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
KR, JP: as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5171429 A(Inax co.)15 Dec. 1992 See the whole document	1
A	US 54911617 A(Joseph E. Currie)13 Feb. 1996 See the whole document	1
A	KR 2000-24110 A(Lee, Jae Kon)06 May 2000 See the whole document	1



Further documents are listed in the continuation of Box C.



See patent family annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

29 APRIL 2004 (29.04.2004)

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Name and mailing address of the ISA/KR



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